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What is claimed is:

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route.

- 1. A fixed length data processing apparatus 1 2 for processing fixed length data used for an asynchronous communication to which transmission 3 route identification information different from 4 transmission route to transmission route is set, said 5 fixed length data processing apparatus comprising: 6 a registration information holding unit for 7 holding registration information necessary to 8 identify fixed length data that is an object of a 9 processing commonly to said transmission routes; and 10 11 a data processing unit for identifying whether received fixed length data is fixed length 12 data that is an object of a processing or not on the 13 basis of at least said registration information in 14 said registration information holding unit to perform 15 a data processing for fault management in said 16 asynchronous communication on the basis of said fixed 17 length data when identifying that said fixed length 18 data is fixed length data that is an object of a 19 processing correspondingly to said transmission 20
- 2. The fixed length data processing apparatus according to claim 1, wherein said data processing
- 3 unit performs said data processing according to a

- 4 process timing in synchronization with a length of
- 5 said fixed length data.
- The fixed length data processing apparatus
- 2 according to claim 1, wherein when a plurality of fixed
- 3 length data are handled in a plurality of transmission
- 4 apparatus, respectively, said data processing unit
- 5 performs said processing commonly to said
- 6 transmission apparatus on the basis of apparatus
- 7 identification information unique to said
- 8 transmission apparatus.
- 1 4. The fixed length data processing apparatus
- 2 according to claim 1, wherein said data processing
- 3 unit comprises:
- a termination information holding unit for
- 5 holding termination information necessary to
- 6 identify fixed length data that is an object of
- 7 termination to be terminated among fixed length data
- 8 that are objects of the processing commonly to said
- 9 transmission routes;
- an identifying unit for identifying whether
- 11 received fixed length data is data that is at least
- 12 an object of the processing and an object of
- 13 termination, and is alarm data for notifying of an
- 14 alarm state of said transmission route or not
- 15 correspondingly to said transmission route on the

- 16 basis of the information in said registration
- 17 information holding unit and said termination
- 18 information holding unit;
- an alarm managing unit for holding and
- 20 managing alarm state information on said transmission
- 21 route correspondingly to said transmission route on
- 22 the basis of said alarm data when said identifying unit
- 23 identifies that said fixed length data is said alarm
- 24 data:
- 25 an alarm data generating unit for generating
- 26 alarm data to be notified another fixed length data
- 27 correspondingly to said transmission route on the
- 28 processing apparatus basis of said alarm state
- 29 information held and managed correspondingly to said
- 30 transmission route in said alarm managing unit; and
- 31 an inserting process unit for inserting said
- 32 alarm data generated by said alarm data generating
- 33 unit to an empty region in a flow of fixed length data
- 34 that is identified by said identifying unit that said
- 35 fixed length data is not required to be terminated and
- 36 should be passed through toward said another fixed
- 37 length data processing apparatus.
- 1 5. The fixed length data processing apparatus
- 2 according to claim 4, wherein said registration
- 3 information holding unit is configured with a RAM.

- 1 6. The fixed length data processing apparatus
- 2 according to claim 4, wherein said registration
- 3 information holding unit holds said registration
- 4 information according to an address based on at least
- 5 said transmission route identification information,
- 6 said identifying unit comprises an address generating
- 7 unit for generating an address based on transmission
- 8 route identification information on a received fixed
- 9 length data; and
- wherein said fixed length data processing
- 11 apparatus designates an address generated by said
- 12 address generating unit to said registration
- 13 information holding unit to read registration
- 14 information necessary to identify said received fixed
- 15 data from said registration information holding unit.
- 7. The fixed length data processing apparatus
- 2 according to claim 6, wherein said address generating
- 3 unit uses a part of said transmission route
- 4 identification information according to the number of
- 5 digits of an address of said registration information
- 6 holding unit to generate an address to be designated
- 7 to said registration information holding unit.
- 8. The fixed length data processing apparatus
- 2 according to claim 4, wherein said termination
- 3 information holding unit is configured with a RAM.

- 1 9. The fixed length data processing apparatus
- 2 according to claim 4, wherein said termination
- 3 information holding unit uses a part of said
- 4 transmission route identification information as an
- 5 address indicating a position in which said
- 6 termination information is stored.
- 1 10. The fixed length data processing apparatus
- 2 according to claim 4, wherein said transmission route
- 3 is designated by a virtual path and a virtual channel
- 4 belonging to said virtual path; and
- 5 wherein said alarm managing unit comprises:
- 6 a virtual path alarm state holding unit for
- 7 holding alarm state information on said virtual path
- 8 correspondingly to apparatus identification
- 9 information unique to transmitting apparatus; and
- 10 a virtual channel alarm state holding unit for
- 11 holding alarm state information on said virtual
- 12 channel correspondingly to said apparatus
- 13 identification information.
- 1 11. The fixed length data processing apparatus
- 2 according to claim 10, wherein said virtual path alarm
- 3 state holding unit and said virtual channel alarm
- 4 state holding unit are configured with RAMs.

- 1 12. The fixed length data processing apparatus
- 2 according to claim 10, wherein said alarm managing
- 3 unit comprises a canceling process unit being able to
- 4 cancel said alarm state information in said virtual
- 5 path alarm state holding unit and said virtual channel
- 6 alarm state holding unit.
- 1 13. The fixed length data processing apparatus
- 2 according to claim 12, wherein each of said virtual
- 3 path alarm state holding unit and said virtual channel
- 4 alarm state holding unit holds elapsed time
- 5 information about a time elapsed since said alarm
- 6 state information is held and said alarm state
- 7 information in combination; and
- 8 wherein said canceling process unit monitors
- 9 said elapsed time information in said virtual path
- 10 alarm state information holding unit and said virtual
- 11 channel alarm state holding unit to cancel alarm state
- 12 information held over a predetermined time.
- 1 14. The fixed length data processing apparatus
- 2 according to claim 12, wherein said canceling process
- 3 unit cancels said alarm state information in said
- 4 virtual path alarm state holding unit and said virtual
- 5 channel alarm state holding unit when said identifying
- 6 unit identifies reception of higher order alarm data
- 7 having a higher notification priority than said alarm

8 data.

- 1 15. The fixed length data processing apparatus
- 2 according to claim 10, wherein said virtual path alarm
- 3 state holding unit holds generation time information
- 4 defining a generate time interval for said alarm data
- 5 in said alarm data generating unit and said alarm state
- 6 information in combination; and
- 7 wherein said alarm data generating unit
- 8 generates said alarm data at predetermined time
- 9 intervals according to said generate time information
- 10 in said virtual path alarm state holding unit.
- 1 16. The fixed length data processing
- 2 apparatus according to claim 12, wherein said alarm
- 3 managing unit comprises a virtual path information
- 4 holding unit for holding information on a virtual path
- 5 to which a virtual channel that can be an object of
- 6 cancellation of said alarm state information in said
- 7 virtual channel alarm state holding unit belongs;
- 8 wherein when said fixed length data
- 9 processing apparatus receives alarm data for a virtual
- 10 path having information on said virtual path held in
- 11 said virtual path information holding unit, said
- 12 canceling process unit cancels alarm state
- 13 information on a virtual channel belonging to said
- 14 virtual path in said virtual channel alarm state

15 holding unit.

- 1 17. The fixed length data processing
- 2 apparatus according to claim 16, wherein said virtual
- 3 path information holding unit comprises a plurality
- 4 of RAMs, and divides information on said virtual path
- 5 into plural pieces to hold said information in said
- 6 plurality of RAMs correspondingly to a plurality of
- 7 virtual channel groups consisting of a plurality of
- 8 virtual channels; and
- 9 wherein said canceling process unit reads
- 10 information on said virtual path from said plurality
- 11 of RAMs within a predetermined cycle to collate
- 12 whether alarm data for said virtual path has
- 13 information on said virtual path held in said virtual
- 14 path information holding unit.
- 1 18. The fixed length data processing
- 2 apparatus according to claim 4, wherein said
- 3 registration information holding unit holds alarm
- 4 data generating information necessary to generate
- 5 said alarm data correspondingly to said transmission
- 6 route; and
- 7 wherein said alarm data generating unit
- 8 comprises an alarm state information detecting unit
- 9 for detecting said alarm state information held and
- 10 managed correspondingly to said transmission route in

- 11 said alarm managing unit, and an alarm data generating
- 12 information detecting unit for detecting alarm data
- 13 generating information necessary for said alarm data
- 14 to be generated on the basis of said alarm state
- 15 information detected by said alarm state information
- 16 detecting unit in said registration information
- 17 holding unit to generate said alarm data on the basis
- 18 of said alarm state information detected by said alarm
- 19 state information detecting unit and said alarm data
- 20 generating information detected by said alarm data
- 21 generating information detecting unit.
- 1 19. The fixed length data processing
- 2 apparatus according to claim 18, wherein when said
- 3 fixed length data is handled in a predetermined
- 4 transmitting apparatus, said registration
- 5 information holding unit holds said alarm data
- 6 generating information correspondingly to apparatus
- 7 identification information unique to said
- 8 transmitting apparatus; and
- 9 wherein said alarm state information
- 10 detecting unit and said alarm data generating
- 11 information detecting unit perform said information
- 12 detecting on the basis of said apparatus
- 13 identification information correspondingly to said
- 14 transmitting apparatus.

- 1 20. The fixed length data processing
- 2 apparatus according to claim 4, wherein said
- 3 identifying unit identifies whether received fixed
- 4 length data is data to be discarded or not; and
- 5 wherein said inserting process unit inserts
- 6 said alarm data generated by said alarm data
- 7 generating unit instead of fixed length data
- 8 identified as data to be discarded by said identifying
- 9 unit.
- 1 21. The fixed length data processing
- 2 apparatus according to claim 4, wherein when said
- 3 fixed length data is handled in a predetermined
- 4 transmitting apparatus, said inserting process unit
- 5 separately performs an inserting process to insert
- 6 said alarm data on the basis of apparatus
- 7 identification information unique to said
- 8 transmitting apparatus correspondingly to said
- 9 transmitting apparatus.
- 1 22. The fixed length data processing
- 2 apparatus according to claim 18, wherein said data
- 3 processing unit comprises an intervening control unit
- 4 for intervening duplication of at least an access
- 5 timing from said identifying unit to said registration
- 6 information in said registration information holding
- 7 unit and an access timing from said alarm data

- 8 generating unit to said alarm data generating
- 9 information in said registration information holding
- 10 unit according to predetermined priority.
- 1 23. A fixed length data processing apparatus
- 2 for processing fixed length data for asynchronous
- 3 communication comprising:
- 4 a request generating unit being able to
- 5 generate an execution request for a continuity test
- 6 processing in order to confirm a continuity state in
- 7 said asynchronous communication; and
- 8 a continuity test processing unit for
- 9 generating fixed length data for a continuity test
- 10 when receiving said execution request from said
- 11 request generating unit, transmitting and receiving
- 12 said fixed length data to and from another fixed length
- 13 data processing apparatus via said transmitting
- 14 apparatus to execute said continuity test processing,
- 15 and notifying a result of said continuity test
- 16 processing said request generating unit.
- 1 24. The fixed length data processing apparatus
- 2 according to claim 23, wherein said continuity test
- 3 processing unit performs said continuity test
- 4 processing according to a process timing in
- 5 synchronization with a length of said fixed length
- 6 data.

- 1 25. The fixed length data processing apparatus
- 2 according to claim 23, wherein when transmission route
- 3 identification information on transmission routes of
- 4 said fixed length data is set in a plurality of said
- 5 fixed length data handled by a plurality of
- 6 transmitting apparatus, said continuity test
- 7 processing unit performs said continuity test
- 8 processing commonly to said transmission routs on the
- 9 basis of said transmission route identification
- 10 information.
- 1 26. The fixed length data processing apparatus
- 2 according to claim 23, wherein when said fixed length
- 3 data is handled by a predetermined transmitting
- 4 apparatus, said continuity test processing unit
- 5 performs said continuity test processing
- 6 correspondingly to said transmitting apparatus on the
- 7 basis of apparatus identification information unique
- 8 to said transmitting apparatus.
- 1 27. The fixed length data processing apparatus
- 2 according to claim 23, wherein when fixed length data
- 3 for the continuity test received from said another
- 4 fixed length data processing apparatus is fixed length
- 5 data having been generated by its own fixed length data
- 6 processing apparatus requesting to be looped back,
- 7 looped back by said another fixed length data

- 8 processing apparatus and received, said continuity
- 9 test processing unit notifies said request generating
- 10 unit that said continuity state is normal as a result
- 11 of said continuity test processing.
- 1 28. The fixed length data processing apparatus
- 2 according to claim 27, wherein when fixed length data
- 3 for a continuity test received from another fixed
- 4 length data processing apparatus is data having been
- 5 generated in said another fixed length data processing
- 6 apparatus requesting to be looped back, said
- 7 continuity test processing unit loops back said fixed
- 8 length data to said another fixed length data
- 9 processing apparatus.
- 1 29. The fixed length data processing apparatus
- 2 according to claim 28, wherein said requesting
- 3 generating unit generates, in response to said
- 4 execution request, setting data for the continuity
- 5 test processing including at least generating data
- 6 necessary to generate fixed length data for said
- 7 continuity test and confirming data necessary to
- 8 confirm contents of fixed length data for the
- 9 continuity test received from another fixed length
- 10 data processing apparatus; and
- 11 wherein said continuity test processing unit
- 12 comprises:

```
13
            an interface unit for receiving said setting
    data from said request generating unit;
14
            a setting data holding unit for holding said
15
16
    setting data received by said interface unit;
            a continuity testing data generating process
17
    unit for generating fixed length data for the
18
    continuity test on the basis of said generating data
19
20
    in said setting data holding unit when receiving said
21
    execution request from said request generating unit,
22
    and transmitting said fixed length data to said
23
    another fixed length data processing apparatus;
24
            a confirming process unit for confirming at
25
    least whether fixed length data for said continuity
    test is loopback data that is fixed length data having
26
    been generated in said continuity testing data
27
    generating process unit requesting to be looped back,
28
    looped back by said another fixed length data
29
    processing apparatus and received, or loopback
30
    requesting data having been generated in said another
31
    fixed length data processing apparatus requesting to
32
    be looped back, on the basis of said confirming data
33
    in said setting data holding unit when receiving said
34
    fixed length data for a continuity test from said
35
    another fixed length data processing apparatus;
36
37
            a notifying process unit for notifying said
    request generating unit via said interface unit that
38
    said continuity state is normal as a result of said
39
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- 40 continuity test processing when said confirm
- 41 processing unit confirms that the received fixed
- 42 length data for a continuity test is said loopback
- 43 data; and
- 44 a loopback processing unit for performing a
- 45 loopback processing to loop back said fixed length
- 46 data for a continuity test to another fixed length data
- 47 processing apparatus as loopback data when said
- 48 confirming processing unit confirms that said
- 49 received fixed length data for a continuity test is
- 50 said loopback requesting data.
- 1 30. The fixed length data processing apparatus
- 2 according to claim 29, wherein said setting data
- 3 holding unit holds each of said data correspondingly
- 4 to transmission route identifying information on
- 5 fixed length data set in said fixed length data for
- 6 a continuity test.
- 1 31. The fixed length data processing apparatus
- 2 according to claim 30, wherein said setting data
- 3 holding unit is configured with a dual port RAM having
- 4 at least ports in two systems, said continuity testing
- 5 data generating process unit reads said generating
- 6 data through a port in either system of said dual port
- 7 RAM, and said confirming process unit reads said
- 8 confirming data through a port in the other system of

9 said dual port RAM.

predetermined time.

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- 1 The fixed length data processing apparatus 2 according to claim 29, wherein said continuity test 3 processing unit comprises a count data holding unit 4 for holding count data counted up in a predetermined 5 cycle when fixed length data for a continuity test requesting to be looped back generated by said 6 continuity testing data generating unit is transmitted, said confirming process unit monitors 8 said count data in said count data holding unit to 9 confirm whether said fixed length data for a 10 11 continuity test generated by said continuity testing data generating unit is received from said another 12 fixed length data processing apparatus within a 13 predetermined time or not, and said continuity testing 14 data generating unit re-generates fixed length data 15 for a continuity test when said confirming process 16 unit confirms that said fixed length data for a 17 continuity test is not received within said 18
- 33. The fixed length data processing apparatus according to claim 32, wherein said confirming process unit confirms the number of times of implementation of said re-generating process by said continuity testing data generating unit, and said notifying

- 6 process unit notifies said request generating unit
- 7 that said continuity state is abnormal as a result of
- 8 said continuity test when said confirming process unit
- 9 confirms that the number of times of implementation
- 10 of said re-generating process reaches a predetermined
- 11 number of times.
- 1 34. The fixed length data processing apparatus
- 2 according to claim 33, wherein said request generating
- 3 unit notifies of said predetermined number of times
- 4 said confirming process unit.
- 1 35. The fixed length data processing apparatus
- 2 according to claim 32, wherein said count data holding
- 3 unit holds said count data in the same address region
- 4 as an address region in which at least said confirming
- 5 data is held in said setting data holding unit, and
- 6 said confirming process unit reads said confirming
- 7 data and said count data by designating an address
- 8 region common to said setting data holding unit and
- 9 said count data holding unit to perform said
- 10 confirming process on the basis of each of said
- 11 confirming data and said count data.
- 1 36. The fixed length data processing apparatus
- 2 according to claim 32, wherein said setting data
- 3 holding unit holds said count data as a combination

- 4 of said generating data and said confirming data.
- 1 37. The fixed length data processing apparatus
- 2 according to claim 30, wherein said setting data
- 3 holding unit holds process state management data for
- 4 managing a process state of said continuity test
- 5 processing correspondingly to said transmission
- 6 route identification information, and said
- 7 continuity testing data generating unit, said
- 8 confirming process unit, said notifying process unit
- 9 and said loopback processing unit perform said
- 10 processing separately on each of a plurality of
- 11 transmission routes on the basis of said transmission
- 12 route identification information set in received
- 13 fixed length data for a continuity test and said
- 14 process state management data in said setting data
- 15 holding unit.
- 1 38. The fixed length data processing apparatus
- 2 according to claim 37, wherein said setting data
- 3 holding unit holds generation waiting display data
- 4 representing a waiting state for said fixed length
- 5 data for a continuity test as said process state
- 6 management data; and
- 7 wherein said continuity testing data
- 8 generating process unit comprises a generation
- 9 waiting identification information retrieving unit

- 10 for retrieving plural kinds of transmission route
- 11 identification information in which said generation
- 12 waiting display data is held in said setting data
- 13 holding unit, and a transmission route identification
- 14 information holding unit for holding plural kinds of
- 15 transmission route identification information
- 16 retrieved by said generation waiting identification
- 17 information retrieving unit to continuously generate
- 18 fixed length data for a continuity test for a plurality
- 19 of transmission routes on the basis of said plural
- 20 kinds of transmission route identification
- 21 information held in said transmission route
- 22 identification information holding unit.
- 1 39. The fixed length data processing apparatus
- 2 according to claim 29, wherein said continuity testing
- 3 data generating process unit sets at least time data
- 4 about a generate time of said fixed length data in said
- 5 generated fixed length data for a continuity test and
- 6 writes said time data as a part of said confirming data
- 7 in said setting data holding unit; and
- 8 wherein when the same time data as said time
- 9 data written in said setting data holding unit is set
- 10 in said fixed length data for a continuity test
- 11 received from said another fixed length data
- 12 processing apparatus, said confirming process unit
- 13 confirms that said fixed length data for a continuity

- 14 test is data having been looped back by said another
- 15 fixed length data processing apparatus and received.
- 1 40. The fixed length data processing apparatus
- 2 according to claim 29, wherein said request generating
- 3 unit gives a transfer trigger to said interface unit
- 4 in order to generate said setting data for each of
- 5 transmission routes of a plural kinds of fixed length
- 6 data that are objects of a continuity testing process
- 7 and transmit said setting data to said interface unit
- 8 or read said setting data from setting data holding
- 9 unit;
- 10 wherein said confirming process unit
- 11 collectively reads said setting data from said
- 12 interface unit and writes said setting data in said
- 13 setting data holding unit, or collectively reads said
- 14 setting data from said setting data holding unit and
- 15 sends said setting data to said interface unit with
- 16 said transfer trigger to said interface unit as an
- 17 opportunity.
- 1 41. The fixed length data processing apparatus
- 2 according to claim 40 further comprising a register
- 3 for holding said setting data from said request
- 4 generating unit to be held in said setting data holding
- 5 unit or said setting data read out from said setting
- 6 data holding unit commonly to transmission route

- 7 identification information set in said fixed length
- 8 data for a continuity test;
- 9 wherein said confirming process unit
- 10 comprises an address generating unit for generating
- 11 a part of an address showing a position in said setting
- 12 data holding unit in which said setting data held in
- 13 said register is written or a position in said setting
- 14 data holding unit from which said setting data is read
- 15 out with said transfer trigger as an opportunity; and
- wherein said confirming process unit writes
- 17 said setting data in said setting data holding unit
- 18 or reads said setting data from said setting data
- 19 holding unit according to an address which is a
- 20 combination of a part of an address generated by said
- 21 address generating unit and an address set as a
- 22 remaining part of said address by said request
- 23 generating unit.
- 1 42. The fixed length data processing apparatus
- 2 according to claim 41, wherein said interface unit
- 3 inhibits an access from said request generating unit
- 4 while said setting data is written from said register
- 5 in said setting data holding unit.
- 1 43. The fixed length data processing apparatus
- 2 according to claim 29, wherein said fixed length data
- 3 processing apparatus comprises an error detecting

- 4 unit for detecting an error in said setting data from
- 5 said request generating unit, and a data correcting
- 6 unit for correcting said error when said error
- 7 detecting unit detects said error in said setting
- 8 data.
- 1 44. The fixed length data processing apparatus according to claim 29 further comprising an inserting
- 3 unit for inserting said loopback data to be looped back
- 4 to said another fixed length data processing apparatus
- 5 in a loopback processing by said loopback processing
- 6 unit in an empty region in a fixed length data flow
- 7 toward said another fixed length data processing
- 8 apparatus.
- 1 45. The fixed length data processing apparatus
- 2 according to claim 44, wherein said inserting unit
- 3 comprises an input disconnection state detecting unit
- 4 for detecting an input disconnection state of said
- 5 fixed length data flow, and an alarm generating unit
- 6 for periodically generating alarm data for notifying
- 7 of a fault state said another fixed length data
- 8 processing apparatus when said input disconnection
- 9 state detecting unit detects said input disconnection
- 10 state;
- 11 wherein when said input disconnection state
- 12 detecting unit detects said input disconnection state,

- 13 said inserting unit inserts said loopback data in an
- 14 empty region in an alarm data flow periodically
- 15 generated by said alarm generating unit.
- 1 46. The fixed length data processing apparatus
- 2 according to claim 44, wherein said inserting unit
- 3 comprises a loopback data holding unit for holding
- 4 said loopback data, and said loopback data holding
- 5 unit holds only a part of data among said loopback
- 6 data.
- 1 47. The fixed length data processing apparatus
- 2 according to claim 46, wherein said inserting unit
- 3 generates additional data to be added other than said
- 4 part of data not held in said loopback data holding
- 5 unit at the time of the insertion to add said
- 6 additional data to said part of data held in said
- 7 loopback data holding unit at the time of the
- 8 insertion.
- 1 48. The fixed length data processing apparatus
- 2 according to claim 46, wherein when said inserting
- 3 unit is notified by said continuity test processing
- 4 unit that said loopback data is not data to be looped
- 5 back to said another fixed length data processing
- 6 apparatus, said inserting unit cancels said data held
- 7 in said loopback data holding unit.

- 1 49. The fixed length data processing apparatus
- 2 according to claim 44, wherein said inserting unit
- 3 comprises an intervening circuit for intervening
- 4 insert timings for said loopback data and said fixed
- 5 length data for insertion when fixed length data for
 - 6 insertion to be inserted to an empty region in said
 - 7 fixed length data flow exists other than said loopback
 - 8 data for a continuity test.
 - 1 50. The fixed length data processing apparatus
 - 2 according to claim 49, wherein said intervening
 - 3 circuit gives the highest priority to said insert
 - 4 timing for said loopback data.
 - 1 51. The fixed length data processing apparatus
 - 2 according to claim 44, wherein when said fixed length
 - 3 data for a continuity test is handled by a
 - 4 predetermined transmitting apparatus, said inserting
 - 5 unit separately performs said inserting process
 - 6 corresponding to said transmitting apparatus on the
 - 7 basis of apparatus identification information unique
 - 8 to said transmitting apparatus.
 - 1 52. The fixed length data processing apparatus
 - 2 according to claim 51, wherein said inserting unit
 - 3 performs the next inserting process on the basis of

- 4 apparatus identification information different from
- 5 said apparatus identification information by which
- 6 said inserting process has been performed in the last
- 7 occasion.
- 1 53. The fixed length data processing apparatus
- 2 according to claim 51, wherein said inserting unit
- 3 inhibits said inserting process correspondingly to
- 4 said transmitting apparatus.